

No. 648,616.

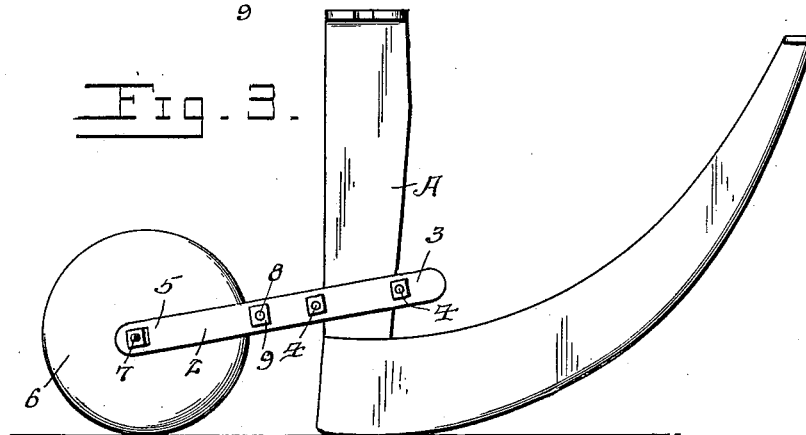
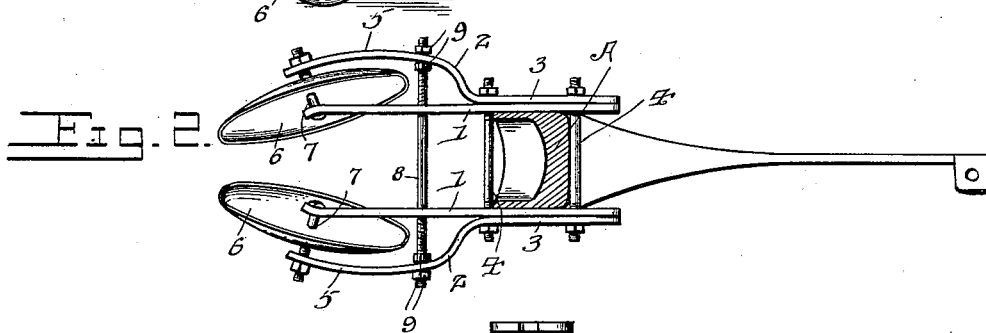
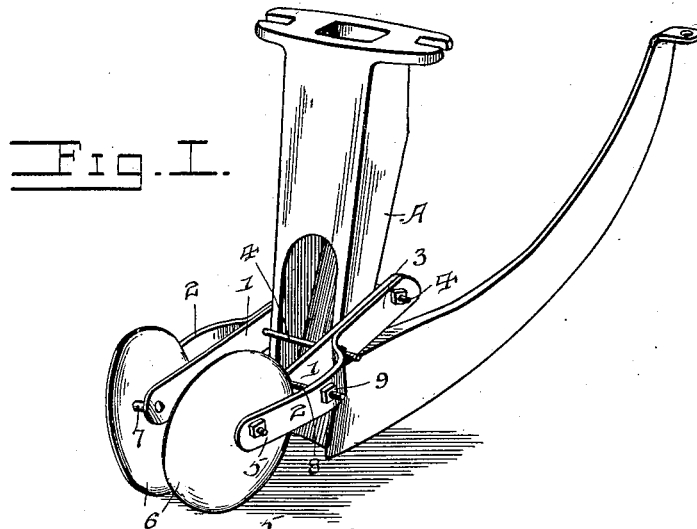
Patented May 1, 1900.

J. F. HEDRICK.

COVERING ATTACHMENT FOR CORN PLANTERS.

(Application filed Mar. 7, 1900.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

JAMES F. HEDRICK, OF PERRY, MISSOURI.

COVERING ATTACHMENT FOR CORN-PLANTERS.

SPECIFICATION forming part of Letters Patent No. 648,616, dated May 1, 1900.

Application filed March 7, 1900. Serial No. 7,705. (No model.)

To all whom it may concern:

Be it known that I, JAMES F. HEDRICK, a citizen of the United States, residing at Perry, in the county of Ralls and State of Missouri, have invented a new and useful Covering Attachment for Corn-Planters, of which the following is a specification.

My invention is an improved covering attachment for corn and other planters, one object of my invention being to provide an attachment which is adapted to be readily secured to and detached from the shoe of an ordinary corn-planter and which is efficient in covering the seeds in the furrow at a uniform appropriate depth.

A further object of my invention is to provide means by which the covering-disks may be adjusted, and thereby disposed at any appropriate angle with relation to the furrow and the line of draft.

A further object of my invention is to provide an improved covering attachment which may be readily adjusted vertically on the seed-spout of the shoe and readily clamped thereto at any desired vertical adjustment or inclination and which is adapted to be used in connection with the shoe of any ordinary corn-planter without altering said shoe.

To these ends my invention consists in the peculiar construction and combination of devices hereinafter fully set forth, and pointed out in the claims.

In the accompanying drawings, Figure 1 is a perspective view of a covering attachment embodying my improvements, showing the same attached to the shoe of a corn-planter. Fig. 2 is a top plan view of the same, the seed-spout of the corn-planter being indicated in cross-section. Fig. 3 is a side elevation of the same.

In the embodiment of my invention herein illustrated, 1 represents a pair of longitudinal supporting arms or bars, which are made of iron, steel, or other suitable material and adapted to be clamped on opposite sides of the seed-spout A of a corn-planter. On the outer side of the arms or bars 1 are spring-bars 2, the front portions of which are straightened to form the arms 3, which bear against the front portions of the bars 1, on the outer sides thereof, and are clamped thereto by means of the bolt-rods 4, which are employed to clamp

the bars 1 to the sides of the seed-spout, the latter being arranged between the said bars 1 and the said bolt-rods 4, as shown. The rear portions of the spring-bars 2 are curved, as shown, and thereby disposed at a suitable distance from the bar 1 and in line therewith, and said curved spring-arms 5 thus formed of the rear portions of the spring-bars exceed in length the rearward extensions of the supporting-bars 1.

Concavo-convex covering-disks 6 are provided with centrally-disposed supporting-spindles 7, which, as here shown, are bolts which have their bearings in suitable openings in the rear ends of the bars 1 and spring-arms 5. The said openings are sufficiently large to admit of some degree of play or freedom of movement of the ends of the spindle-bolts therein, whereby the said spindle-bolts, and hence the disks to which they are attached, may be adjusted to a more or less acute angle with relation to the furrow or line of draft. It will be observed by reference to the drawings that the said covering-disks converge toward their rear sides and are thereby obliquely disposed with reference to the line of draft or furrow, and it will be further observed that the space between them and between their supporting-bars 1 is entirely unobstructed, so that the said disks will not become clogged by earth or trash when in operation, and hence their efficiency for the purposes of covering the seeds in the furrow can in no wise become impaired from such causes.

In order to adapt the covering-disks to be set to any required predetermined angle with relation to the furrow or line of draft, I provide an adjusting bolt-rod 8, which extends through and connects the bars 1 and the spring-arms 5 of the spring-bars, the said adjusting bolt-rod being disposed at a slight distance in rear of the seed-spout, where it cannot become engaged by clods or trash and cause an accumulation of material to clog the space between the opposing concaved sides of the covering-disks. This adjusting-bolt is provided at its ends with set-nuts 9, which bear upon the inner and outer sides of the supporting spring-arms 5, and by means of said set-nuts the said spring-arms may be adjusted toward and from the supporting-bars

1. When the said curved spring-arms 5 are adjusted outward from the bars 1, the same tend to become shortened as between the adjusting bolt-rod 8 and the outer ends of the spindle-bolts 7, owing to the bowing outward of said spring-arms 5, thereby tending to arrange the disks at a more acute angle with relation to the furrow or line of draft. When the nuts 9 are turned so as to move the spring-arms 5 toward the bars 1, said spring-arms 5 become correspondingly flattened, thereby lengthening said spring-arms and adjusting the covering-disk to a less acute angle with relation to the line of draft.
- 15 The bolt-rods 4, which serve to clamp the bars 1 and spring-bars together and to the sides of the seed-spout, adapt the attachment to be secured to the seed-spout at any desired height, and thereby predetermine the depth at which said covering-disks shall operate and also enable said bars 1 and spring-bars 2 to be secured to said seed-spout at any desired angle. The bolt-rod 8 not only is efficient for the purpose of adjusting the covering-disks, but also serves as a connecting-brace between the rear extending portions of the bars 1 and spring-bars 2 and greatly strengthens the construction of the attachment.
- 30 Having thus described my invention, I claim—
1. In a coverer for planters, the combina-

tion of the supporting members, each comprising a rigid bar and a curved spring-bar, the covering-disks having their supporting-spin-
dles journaled in bearings in said rigid bars and spring-bars, and means to vary the contours of the curved spring-bars and thereby adjust said covering-disks, substantially as described.

2. In a coverer for planters, the combination with a shoe, of arms or bars extending rearward from the sides thereof and covering-disks mounted between said arms or bars, the space between said covering-disks being unobstructed, substantially as described.

3. In a coverer for planters, the combination with a shoe, of pairs of supporting-arms, bolt-rods to clamp said pairs of supporting-arms together and to the shoe, and the covering-disks having their supporting-bearings in said pairs of supporting-arms, said disks being disposed between the rear extending members of said pairs of supporting-arms, and the space between said disks being otherwise unobstructed, for the purpose set forth, substantially as described.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

JAMES F. HEDRICK.

Witnesses:

S. C. GILL,

A. A. RICHARDS.